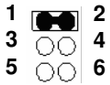
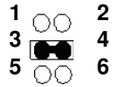
CF Master/Slave select

	Master	Slave*
JP1		

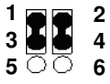
*Default

COM2 232/422/485 select

	232 *	422	485
JP2			

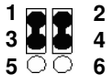
*Default

COM2 232/422/485 select

	232 *	422	485
JP4			

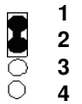
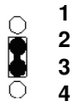
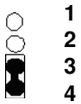
*Default

COM2 232/422/485 select

	232 *	422	485
JP5			

*Default

BIOS write-protect

	Boot Block	None *	All
JP6			

*Default

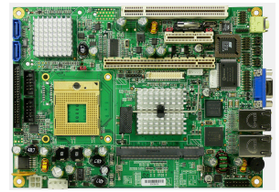
EBC5945GM

Intel® Core™ Solo/Duo, Core™2 Duo, Core™ Duo (Low Voltage), and Celeron M (4xx series) Processor in Socket M format 5.25" SBC

User's Quick Start Card Version 1.01 **http://www.bcmcom.com**

Inspect the Package:

One **EBC5945GM Motherboard**
One **Heatsink + Fan**
One **Driver CD**
One **User's Quick Start Card**
One ACC-5945GM package
- One **AC-002 Daughter board**
- One **IDE Cable (44 Pins to 44 Pins)**
- One **COM Port cable**
- One **KB/MS Cable (to Daughter Board)**
- One **Audio Cable (to Daughter Board)**
- One **Power Cable**
- One **USB cable (to Daughter Board)**



Responsibility:

This manual is provided "As-Is" with no warranties of any kind, expressed or implied, including, but not limited to the implied warranties or conditions of this product's fitness for any particular purpose. In no event shall we be liable for any loss of profits, loss of business, loss of data, interruption of business, or indirect, special, incidental, or consequential damages of any kind, even the possibility of such damages arising from any defect or error in this manual or product. We reserve the right to modify and update the user manual without prior notice.

WARNING: CMOS Battery Damage

Replace your system's CMOS RAM battery only with the identical CR-2032 3V Lithium-Ion coin cell (or equivalent) battery type to avoid risk of personal injury or physical damage to your equipment. Improper installation might cause battery to explode. Always dispose of used batteries according to the manufacturer's instructions, or as required by the local ordinance (where applicable). The damage due to not following this warning will void your motherboard's manufacturer warranty.

Additional Information:

Additional information on setting this board up can be found in the User's Manual in the provided CD-ROM. The Online User's Manual and FAQ/Knowledge Base can be found on our website by visiting our website: **http://www.bcmcom.com**. If your question is not answered in our FAQ/Knowledge Base, visit our forums and post your messages or submit a new FAQ through FAQ Submittal form for us to add your question in our FAQ with our answer.

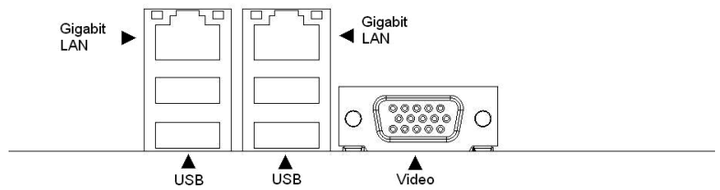
ATTENTION: Incorrect BIOS Setup

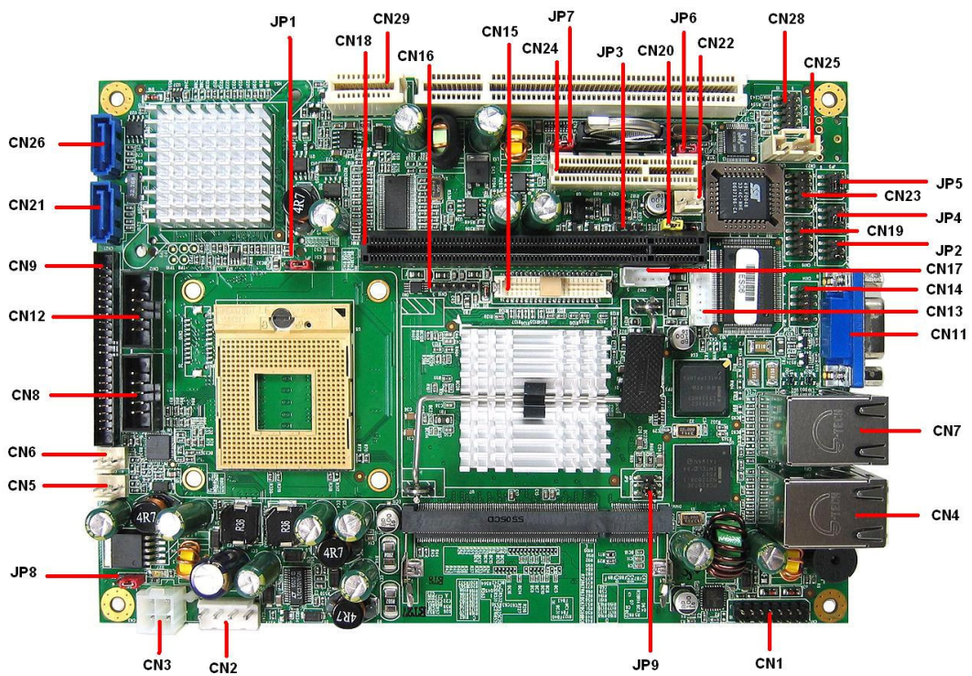
If you do not know how to handle BIOS setup or how to set it up properly, it is strongly advisable that you do not modify any of the settings than otherwise instructed in the User's Quick Start Card. Even a seemingly small incorrect adjustment or modification in the BIOS setup can render your system unstable or unusable. The incorrect BIOS setup is not covered by your motherboard's manufacturer warranty.

WARNING: Electrostatic Sensitive Device (ESD)

Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static packaging. Unpacking and installation should be done on a grounded, anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same points as the anti-static mat. During configuration and installation touch a grounded surface frequently to discharge any static electrical charge that may have built up in your body. Avoid touching the components when handling the motherboard or a peripheral card. Handle the motherboard and peripheral cards either by the edges or by the peripheral card case-mounting bracket.

Motherboard Layout:





WARNING: Misplaced Jumper Damage

Incorrect jumpers and connectors settings may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention not to connect these headers in wrong direction. DO NOT change ANY jumpers while the motherboard has power.

Jumper / Connector

Jumper	Description	Note
JP1	CF Master/Slave select	
JP2	COM2 232/422/485 select for COM2	
JP3	Inverter contrast control	
JP4	COM2 232/422/485 select for COM2	
JP5	COM2 232/422/485 select for COM2	
JP6	BIOS write-protect	
JP7	Clear CMOS jumper	
JP8	ATX/AT Power mode select	
JP9	LAN 1/2 NVRAM write-protect	

Connector	Description	Note
CN1	Front Panel header	
CN2	ATX power in	
CN3	AT power in	
CN4	GigaLAN/USB2-3 stacked connector	
CN5	Chassis fan connector	
CN6	CPU fan connector	
CN7	GigaLAN/USB0-1 stacked connector	
CN8	Front USB-2 connector	
CN9	44-pin IDE header	
CN11	VGA connector	
CN12	Front USB-1 connector	
CN13	Keyboard/Mouse connector	
CN14	8-pin GPIO	
CN15	LVDS connector	
CN16	TV-out connector	
CN17	Inverter connector	
CN18	PCIe x16 slot	
CN19	COM1 header	
CN20	Chassis Intrusion pins	
CN21	SATA-2 header	
CN22	System fan connector	
CN23	COM2 header	
CN24	PCIe x4 slot	
CN25	CD-in connector	
CN26	SATA-1 header	
CN28	Audio connector	
CN29	PCI slot w/ riser extension	

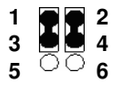
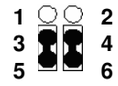
Socket	Description	Note
U8	CPU Socket M	
DIMM-1	SO-DIMM DDR2 Socket	
DIMM-2	SO-DIMM DDR2 Socket	

Clear CMOS jumper		
	Normal *	Clear CMOS
JP7		

*Default

ATX/AT Power mode select		
	ATX Power mode *	AT Power mode
JP8		

*Default

LAN 1/2 NVRAM write-protect		
	Protected *	Unprotected
JP9		

*Default
Note: Pins 1, 3, 5 controls LAN1; Pins 2, 4, 6 controls LAN2

COM 1 header (CN19)

Signal	Pin	Pin	Signal
DCD1	1	2	RxD1
TxD1	3	4	DTR1
GND	5	6	DSR1
RTS1	7	8	CTS1
RI1	9	10	NC

COM 2 header (CN23)

Signal	Pin	Pin	Signal
DCD2	1	2	RxD2
TxD2	3	4	DTR2
GND	5	6	DSR2
RTS2	7	8	CTS2
RI2	9	10	NC

Audio header (CN28)

Signal	Pin	Pin	Signal
L_OUT_R	1	2	L_OUT_L
GND_AUD	3	4	GND_AUD
L_IN_R	5	6	L_IN_L
MIC_IN	7	8	MIC_REF
NC	9	10	NC

CD-in (CN25)

Signal	Pin
CD_L	1
CD_GND	2
CD_GND	3
CD_R	4

Front Panel header (CN1)

Signal	Pin	Pin	Signal
HDD LED +	1	2	PWR LED +
HDD LED -	3	4	PWR LED -
Reset -	5	6	PWR SW +
Reset +	7	8	PWR SW -
IrDA VCC	9	10	SMDATA
IrDA Rx	11	12	SMCLK
IrDA GND	13	14	KEY
IrDA Tx	15	16	SMGND

ATX Power-in (CN2)

Signal	Pin
+5VSB	1
PSON#	2
GND	3
+12V	4

AT Power-in (CN3)

Signal	Pin	Pin	Signal
+12V	3	1	GND
+12V	4	2	GND

Front USB-2 Header (CN8)

Signal	Pin	Pin	Signal
VCC	1	2	VCC
USB6-	3	4	USB7-
USB6+	5	6	USB7+
GND	7	8	GND
NC	9	10	NC

Front USB-1 Header (CN12)

Signal	Pin	Pin	Signal
VCC	1	2	VCC
USB6-	3	4	USB7-
USB6+	5	6	USB7+
GND	7	8	GND
NC	9	10	NC

ATX Power-in (CN2)

Signal	Pin
+5V	1
KBDT	2
KBCK	3
MSDT	4
MSCK	5
GND	6

GPIO (CN14)

Signal	Pin	Pin	Signal
GP10	1	2	GP11
GP12	3	4	GP13
GP14	5	6	GP15
GP16	7	8	GP17
+V5S	9	10	GND

LVDS (CN15)

Signal	Pin	Pin	Signal
VDD 3.3V	1	2	VDD 3.3V
VDD 5V	3	4	VDD 5V
SPCLK2	5	6	SPD2
GND	7	8	GND
A1+	9	10	A0+
A1-	11	12	A0-
GND	13	14	GND
A3+	15	16	A2+
A3-	17	18	A2-
GND	19	20	GND
B1+	21	22	B0+
B1-	23	24	B0-
GND	25	26	GND
B3+	27	28	B2+
B3-	29	30	B2-
GND	31	32	GND
CLKB+	33	34	CLKA+
CLKB-	35	36	CLKA-
GND	37	38	GND
NC	39	40	NC

TV-out (CN16)

Signal	Pin
LUMA_Y	1
TVGND	2
CHORMA_C	3
TVGND	4
CVBS	5

Inverter control (CN17)

Signal	Pin
+12V	1
GND	2
INV_ON	3
V_BRI	4
+V5S	5

Chassis Intrusion (CN20)

Signal	Pin
DETECT#	1
GND	2